09/762233

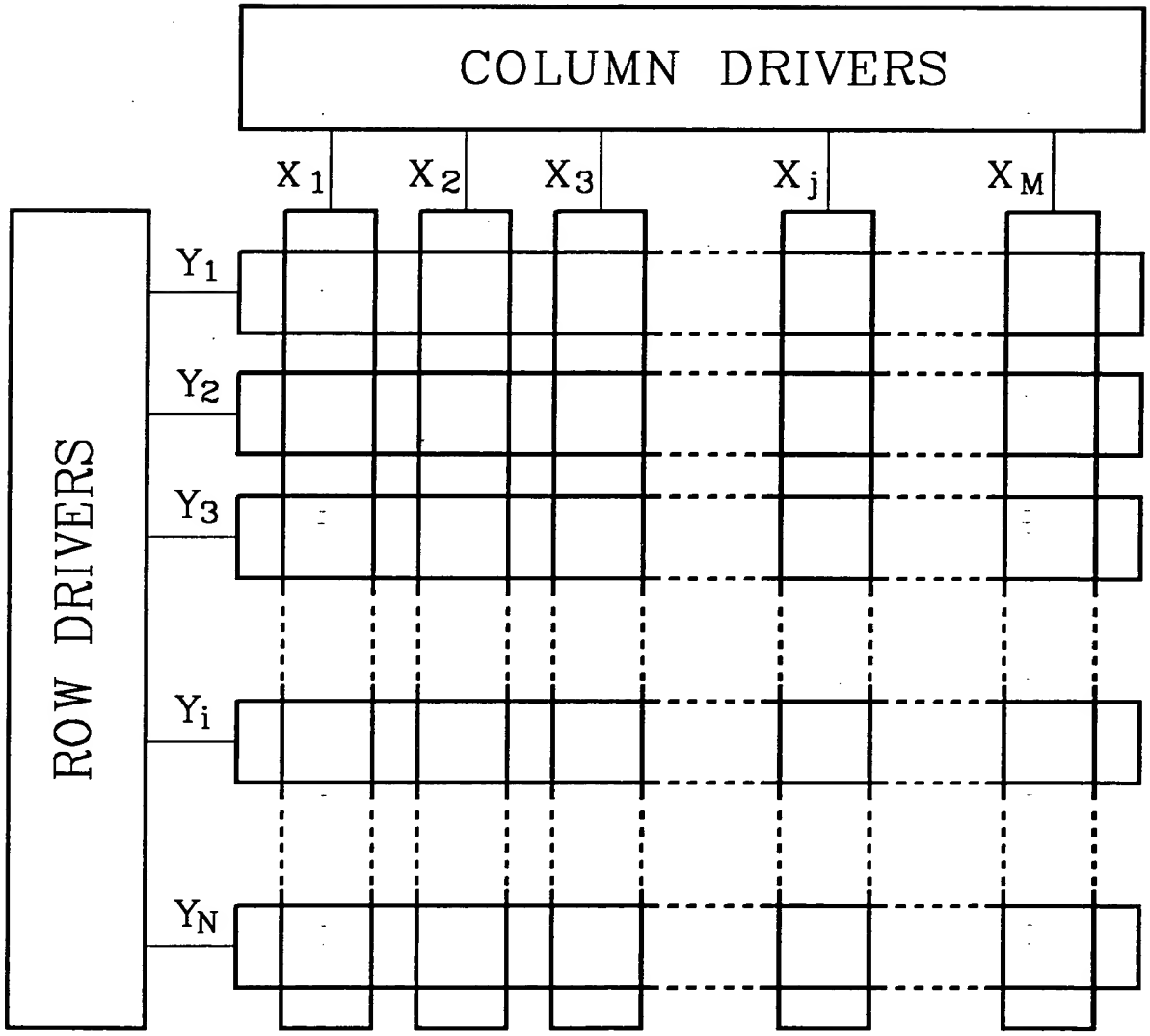

FIG.1

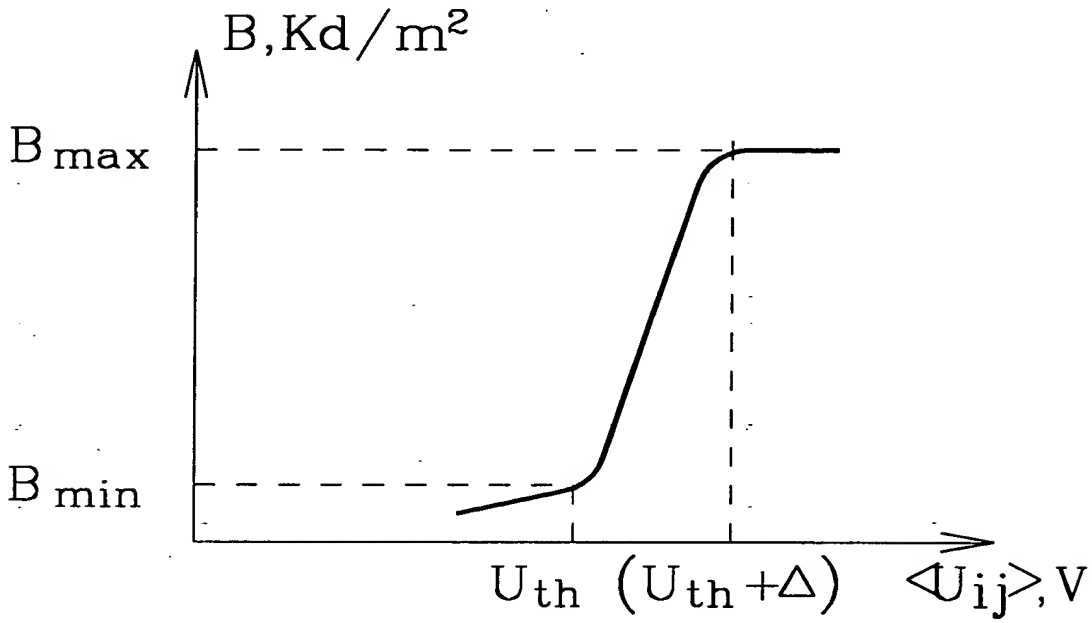

FIG.2

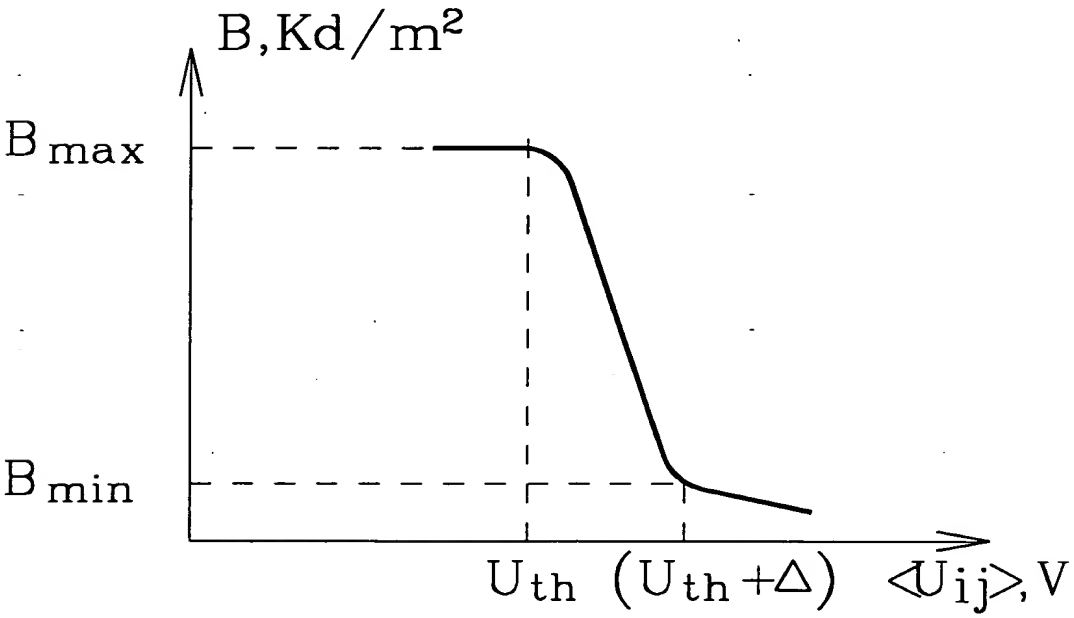

FIG.3

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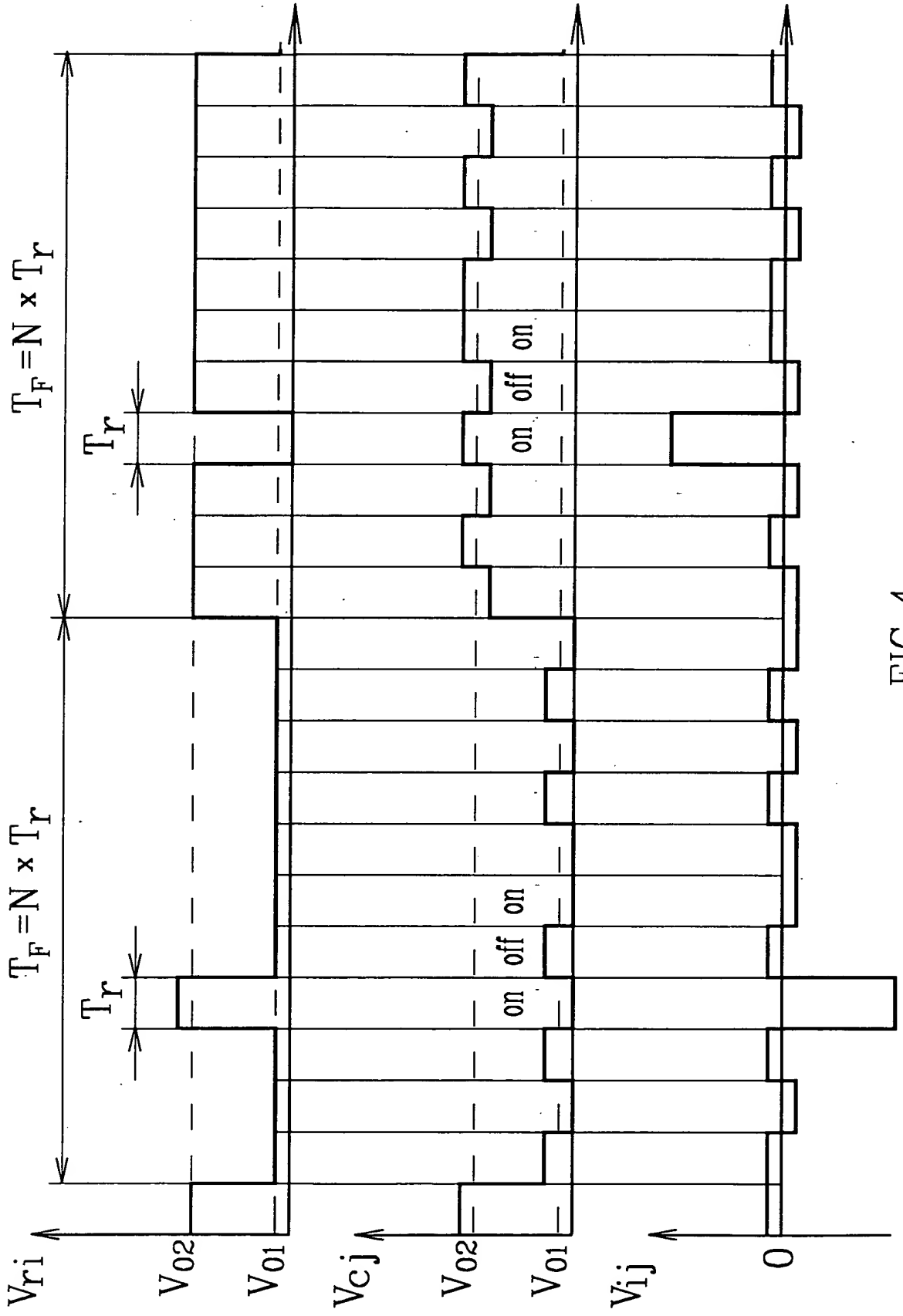

FIG. 4

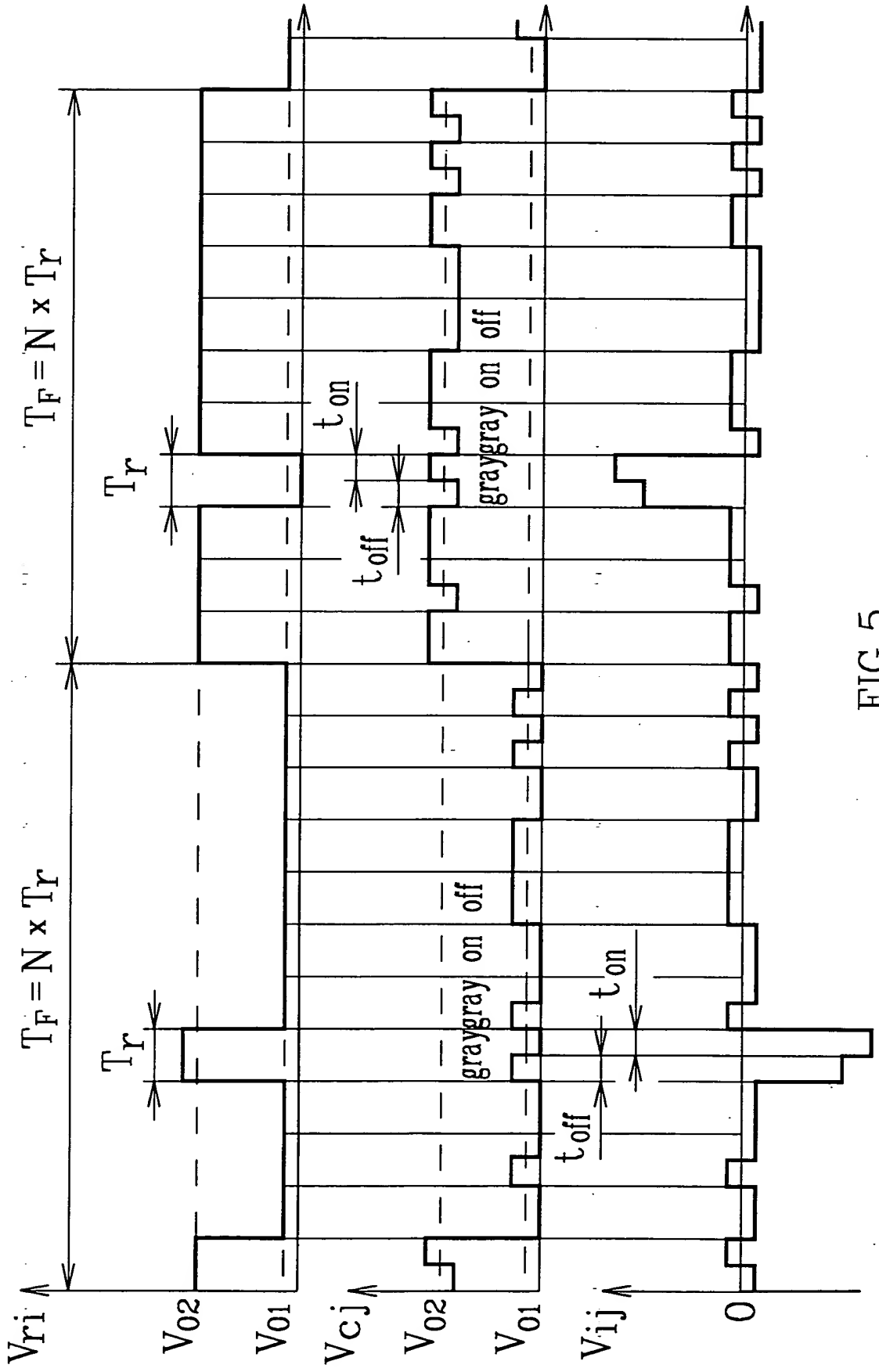
$T_F = N \times T_r$
T_r
t_{on}
t_{off}
gray
on
off
gray
$T_F = N \times T_r$
T_r
gray
on
off
gray
t'_{on}
t_{off}
V_{ri}
V_{o2}
V_{o1}
V_{cj}
V_{o2}
V_{o1}
V_{ij}
0

FIG.5

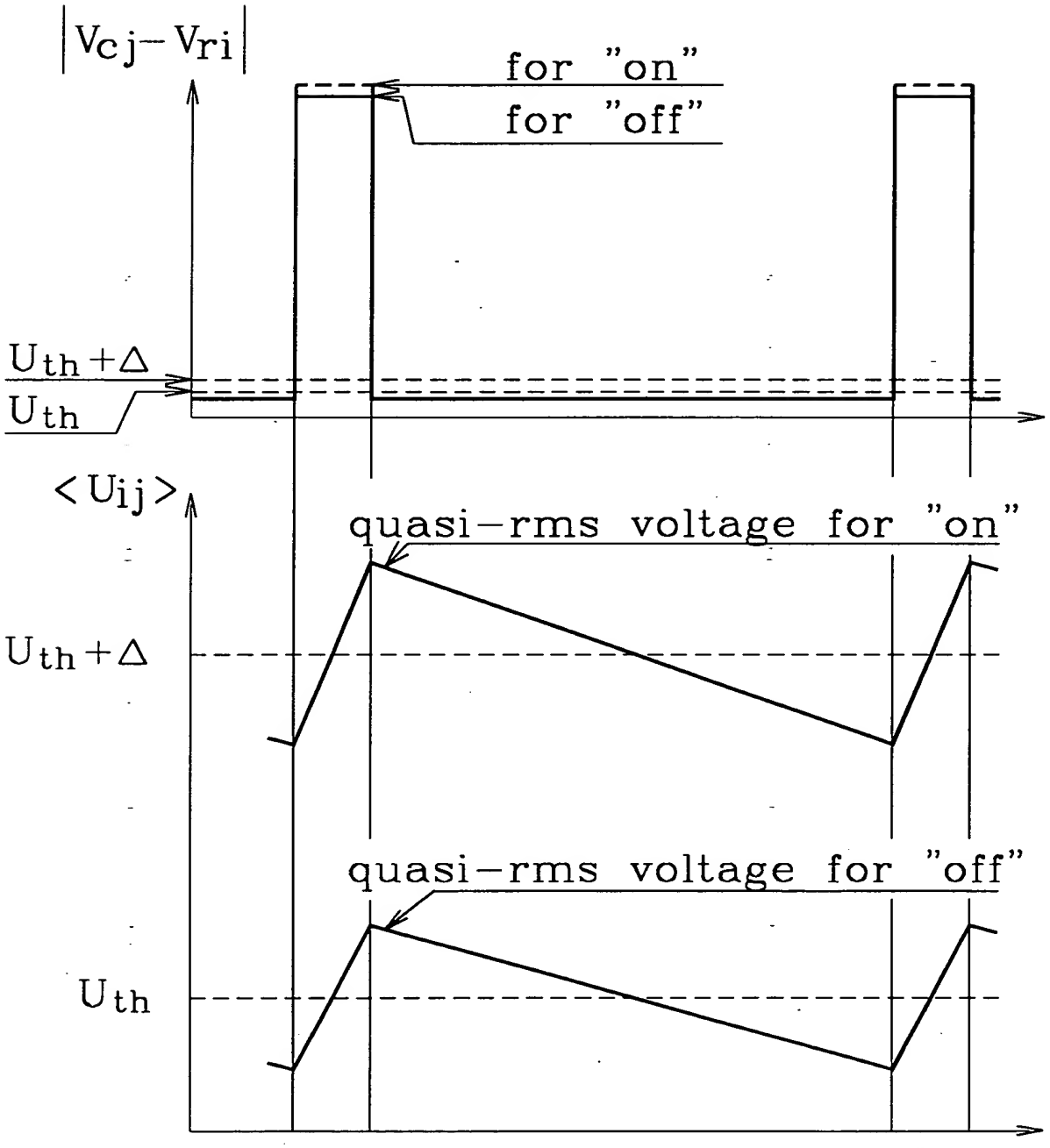
|Vcj−Vri|
for "on"
for "off"
Uth+Δ
Uth
<Uij>
quasi−rms voltage for "on"
Uth+Δ
quasi−rms voltage for "off"
Uth

FIG.6

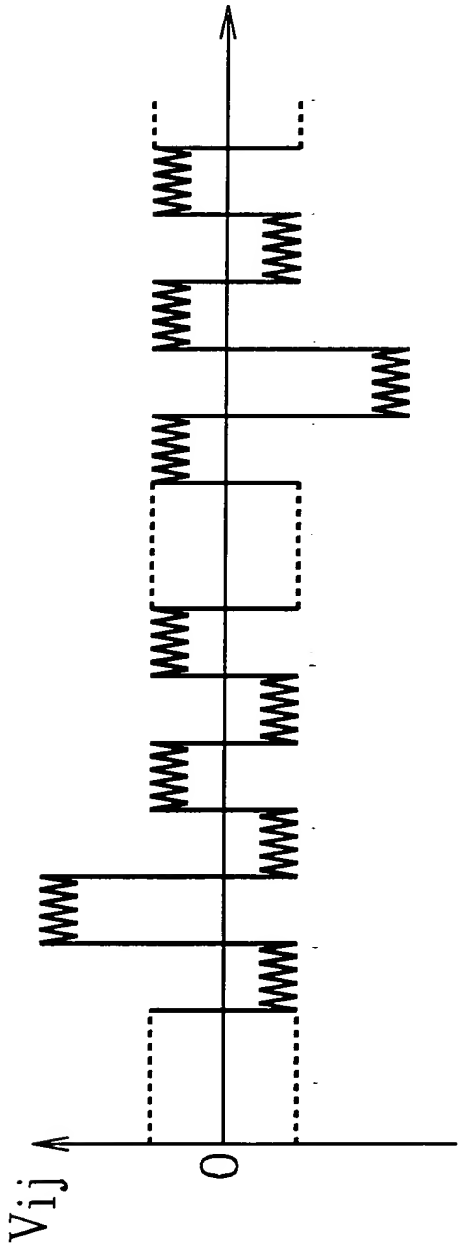

FIG. 7

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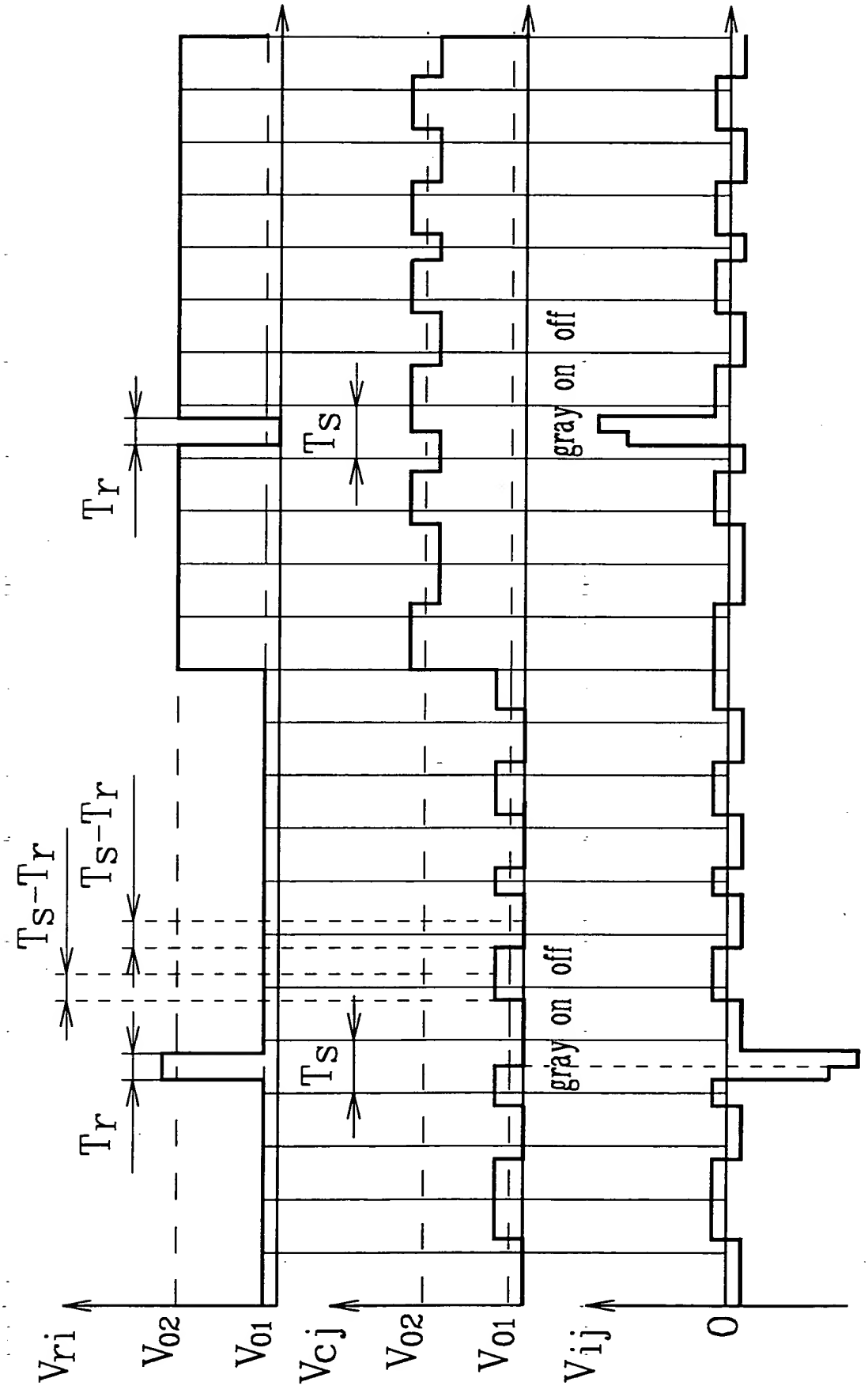

FIG. 8

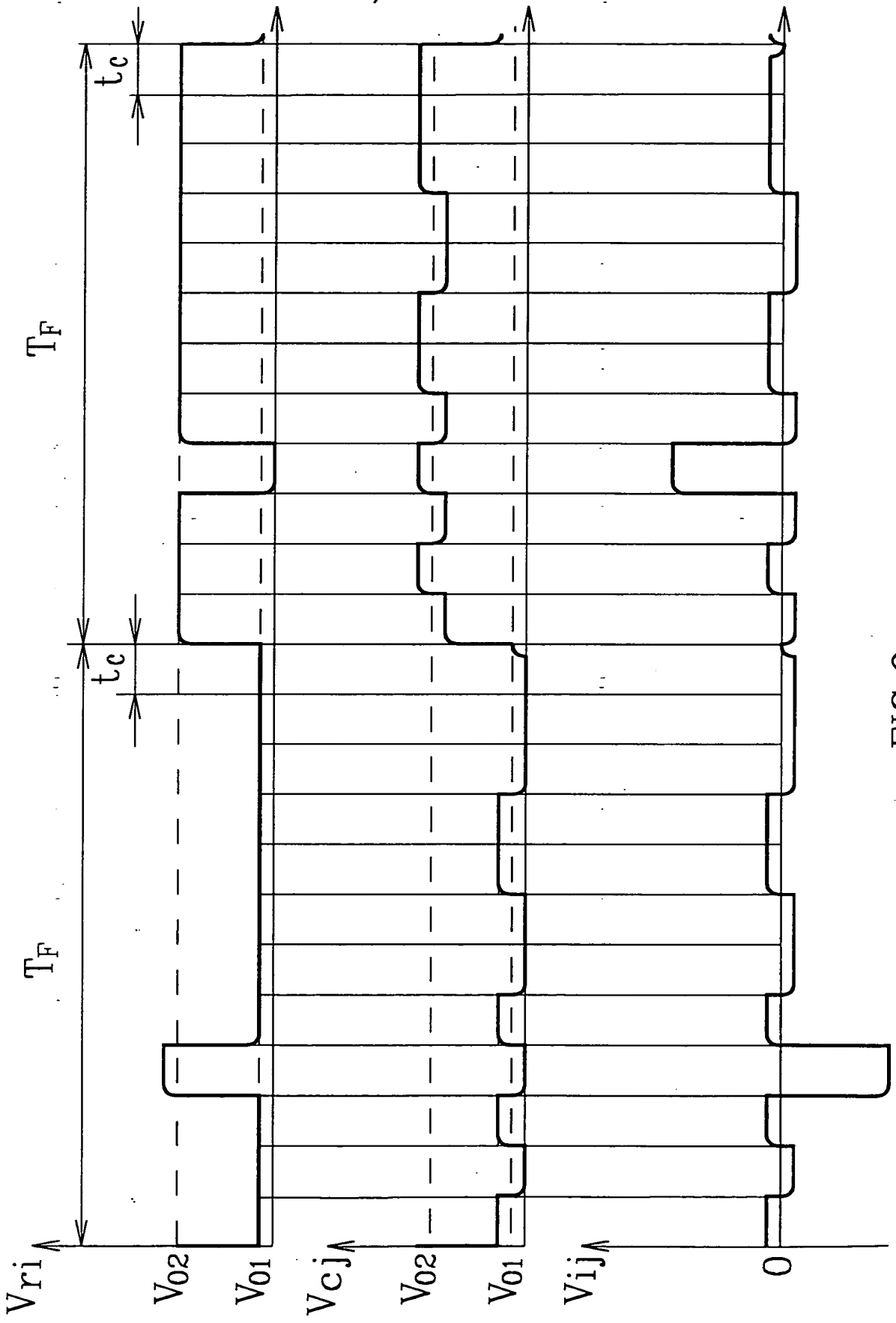

FIG. 9

09/762233

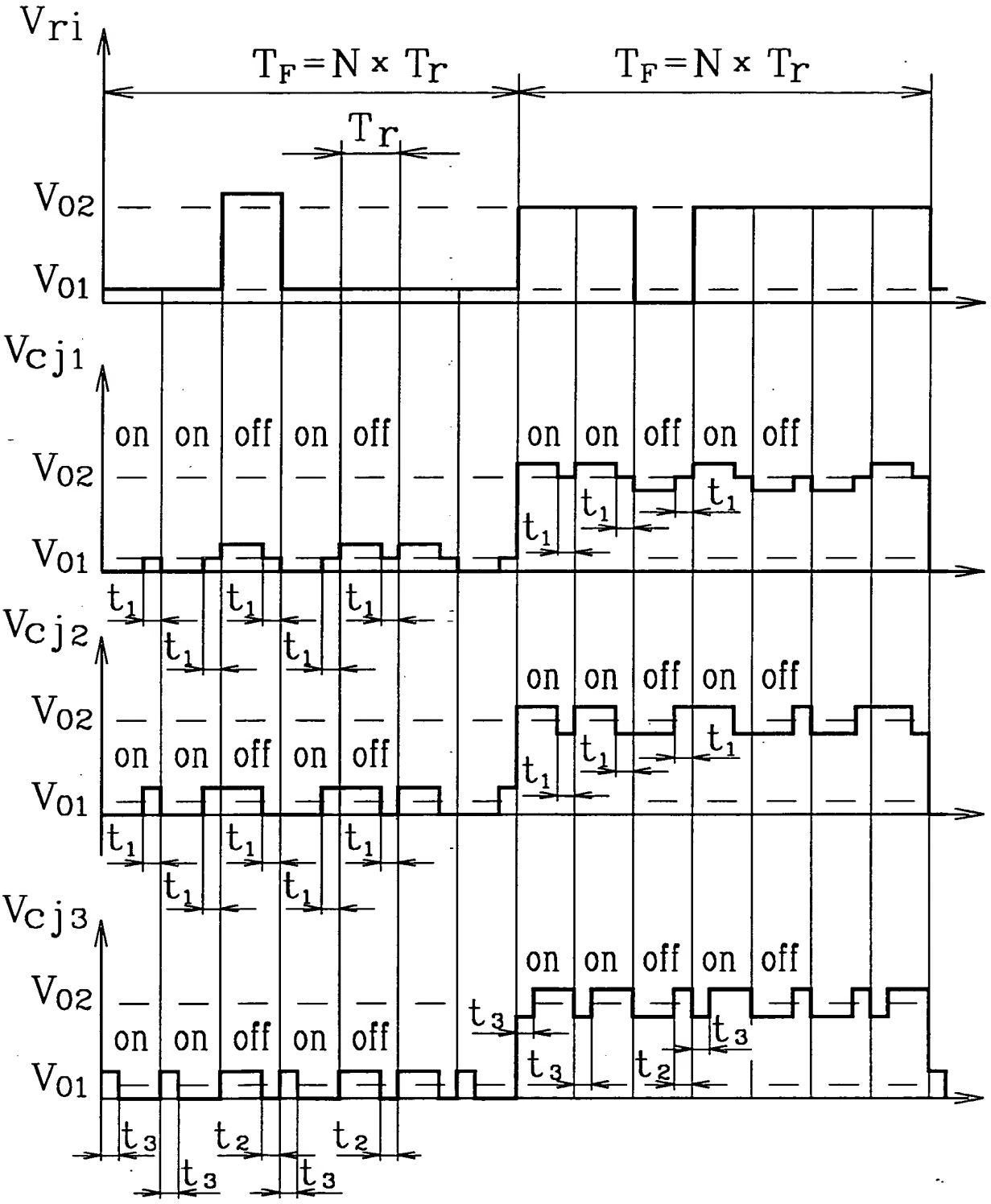

FIG. 10

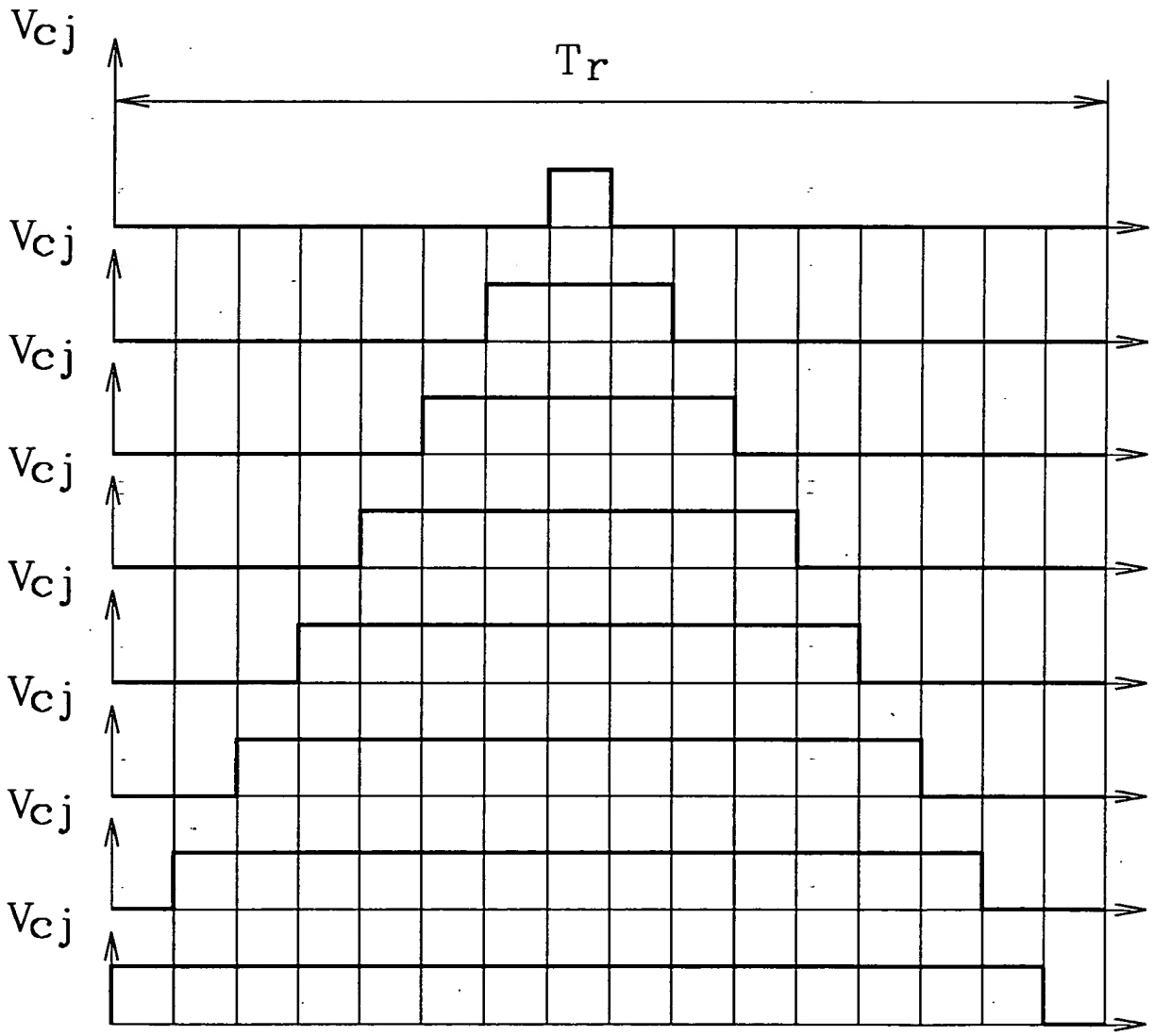

FIG.11

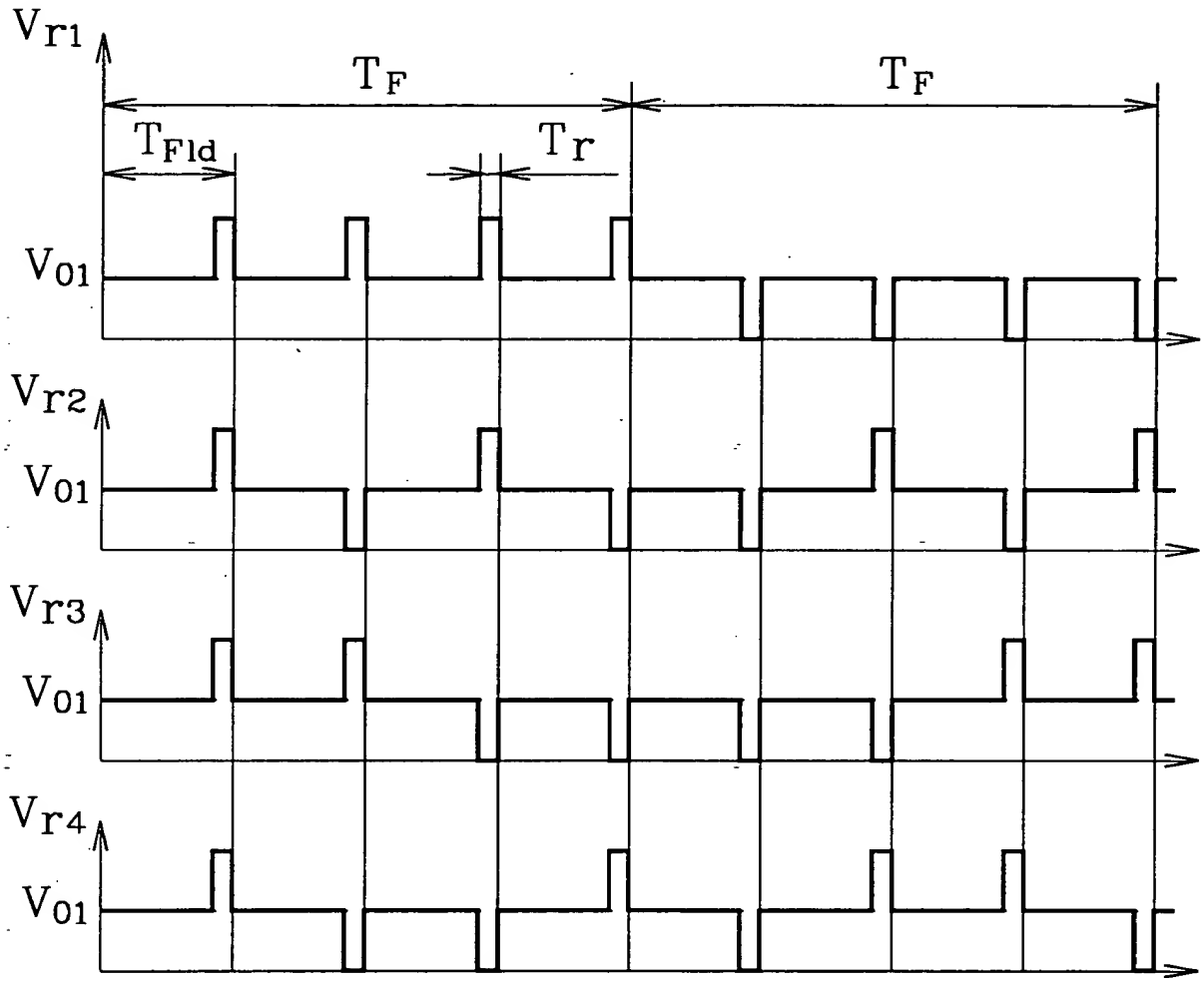

FIG.12

$$\begin{pmatrix} 1 & 1 & 1 & 1 & -1 & -1 & -1 & -1 \\ 1 & -1 & 1 & -1 & -1 & 1 & -1 & 1 \\ 1 & 1 & -1 & -1 & -1 & -1 & 1 & 1 \\ 1 & -1 & -1 & 1 & -1 & 1 & 1 & -1 \end{pmatrix} \text{ или } \begin{pmatrix} 1 & 1 & 1 & 1 & 0 & 0 & 0 & 0 \\ 1 & 0 & 1 & 0 & 0 & 1 & 0 & 1 \\ 1 & 1 & 0 & 0 & 0 & 0 & 1 & 1 \\ 1 & 0 & 0 & 1 & 0 & 1 & 1 & 0 \end{pmatrix}$$

FIG.13

09/762233

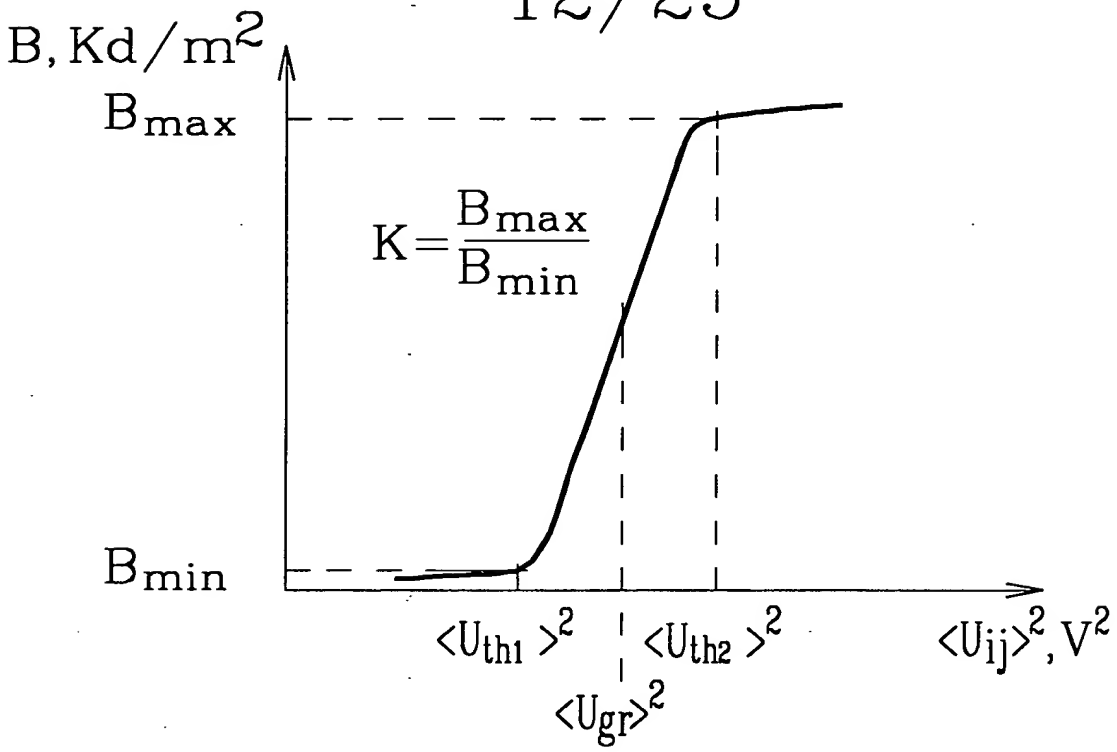

FIG.14

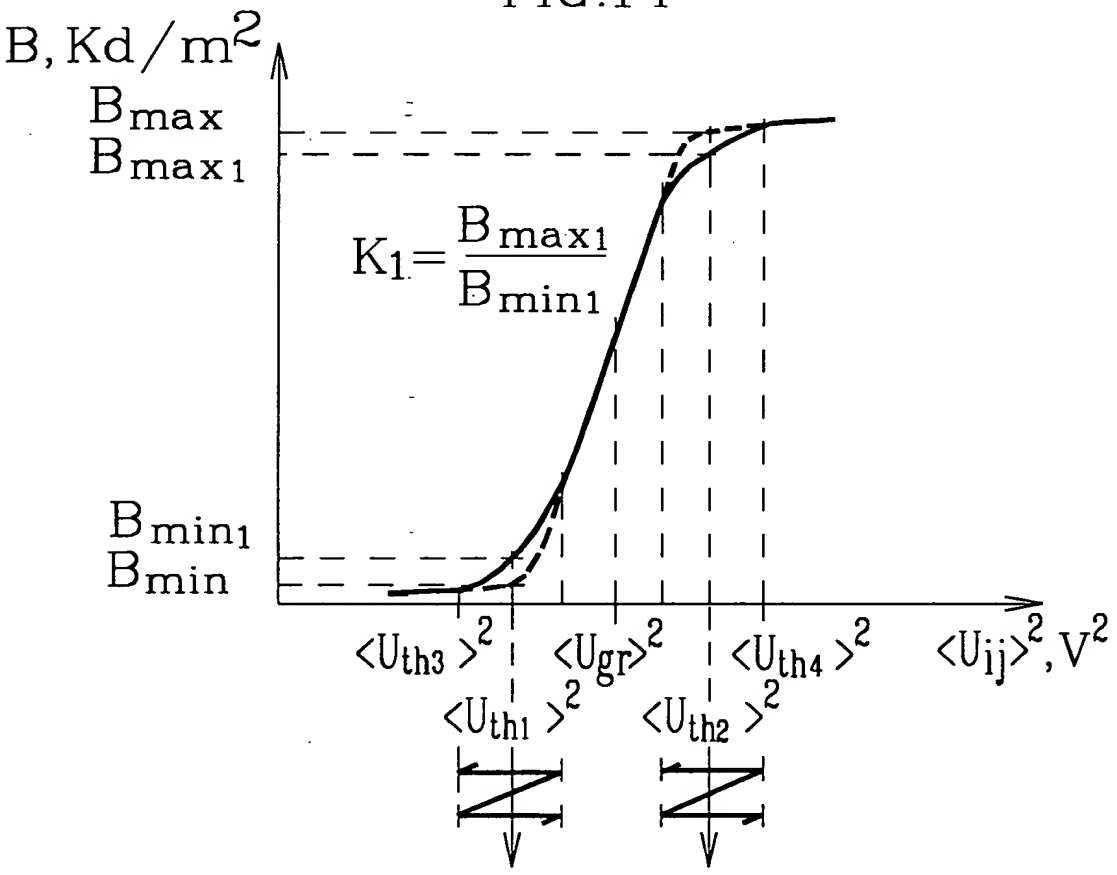

FIG.15

09/762233

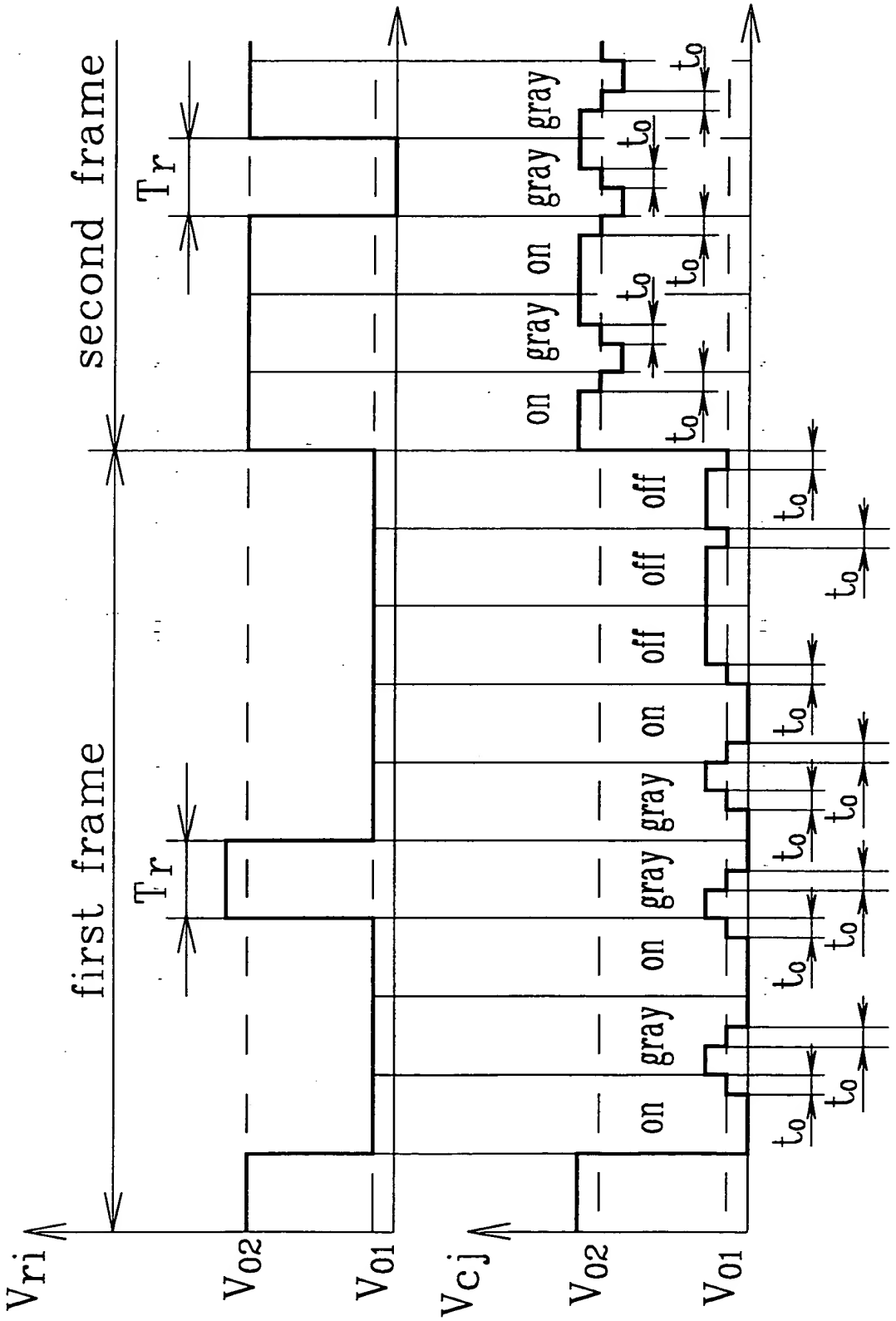

FIG. 16

09/762233

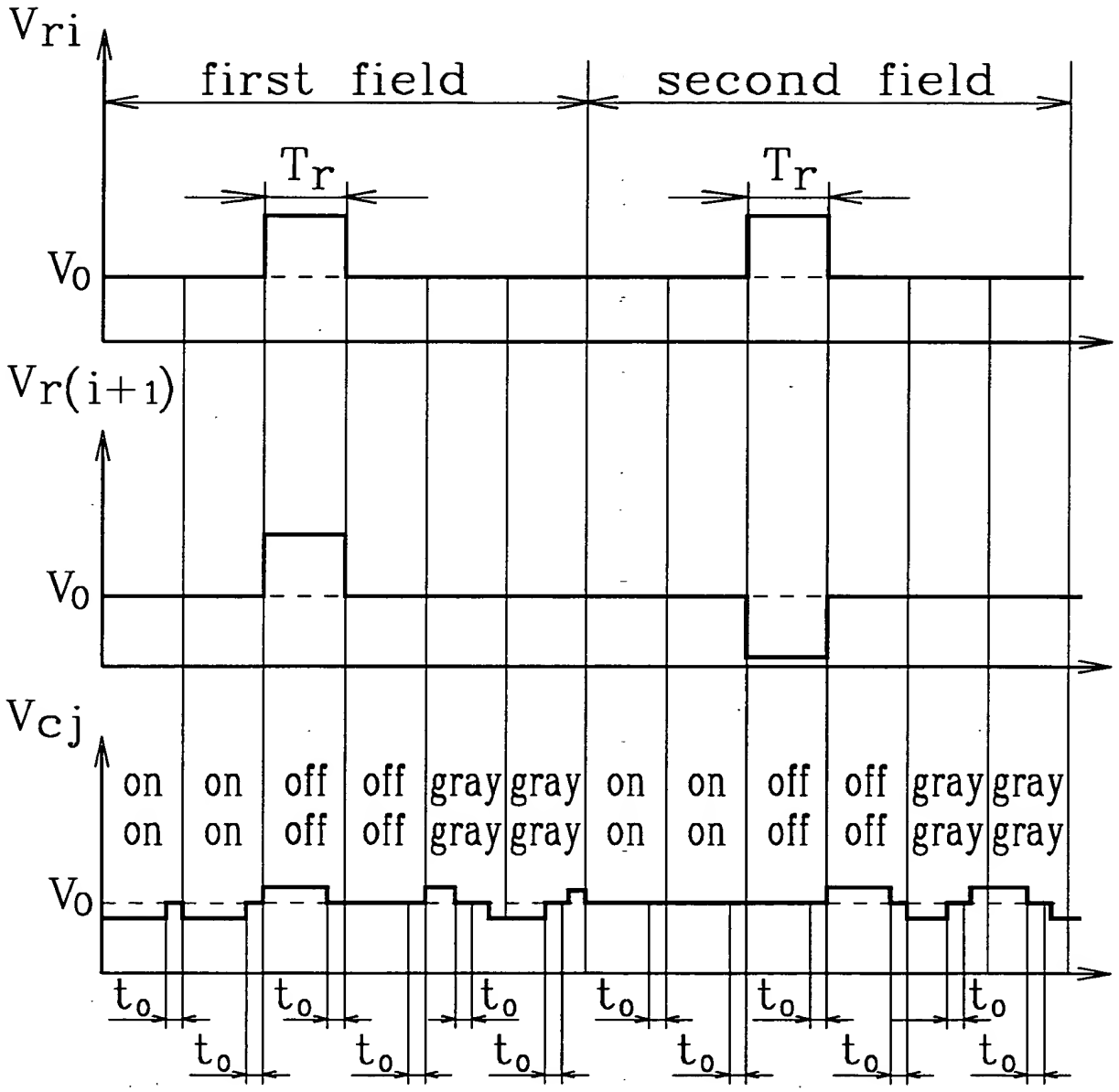

FIG.17

09/762233

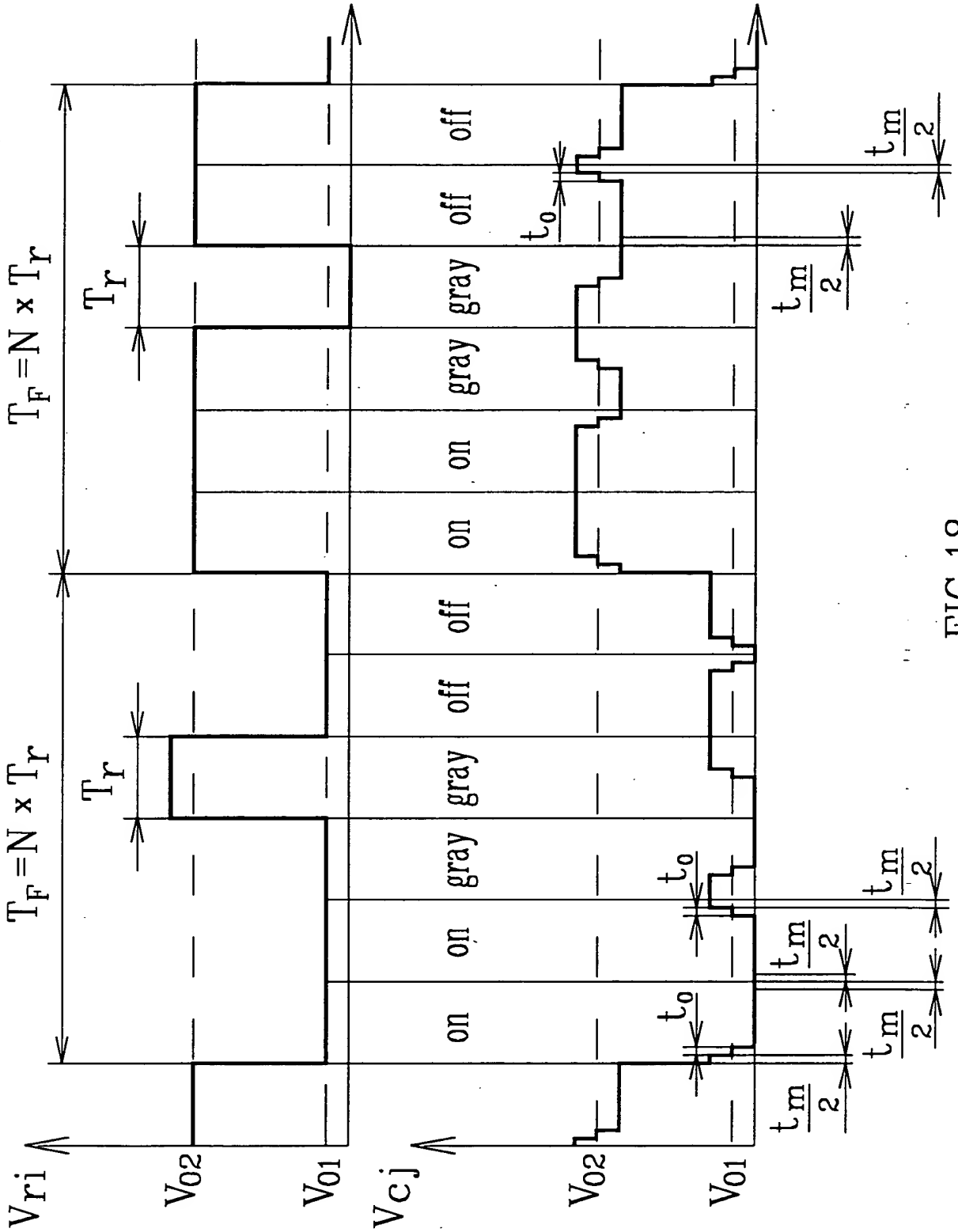

FIG.18

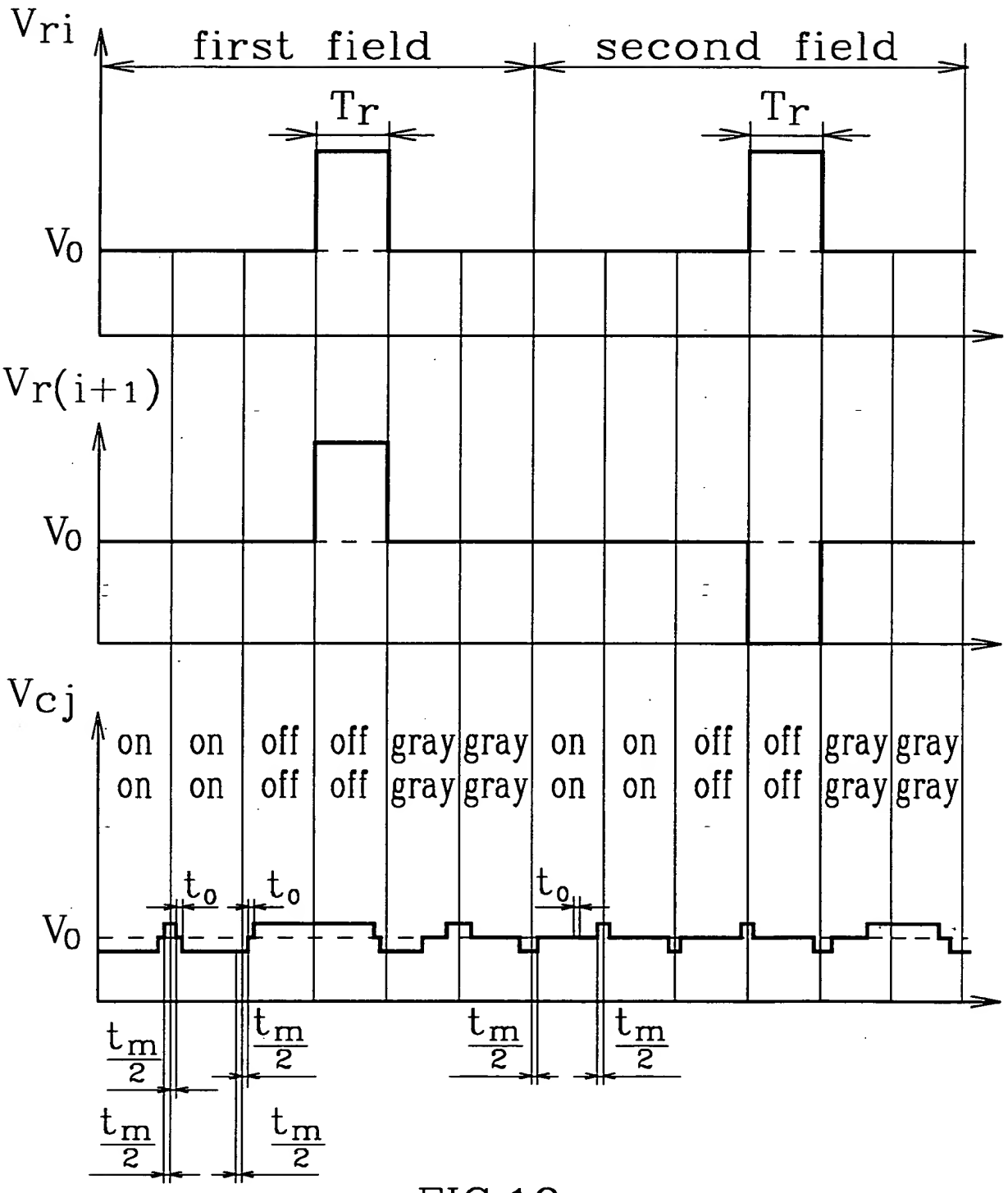
Vri
first field
second field
Tr
Tr
Vo
Vr(i+1)
Vo
Vcj
on on off off gray gray on on off off gray gray
on on off off gray gray on on off off gray gray
to
to
to
Vo
tm/2
tm/2
tm/2
tm/2
tm/2
tm/2

FIG.19

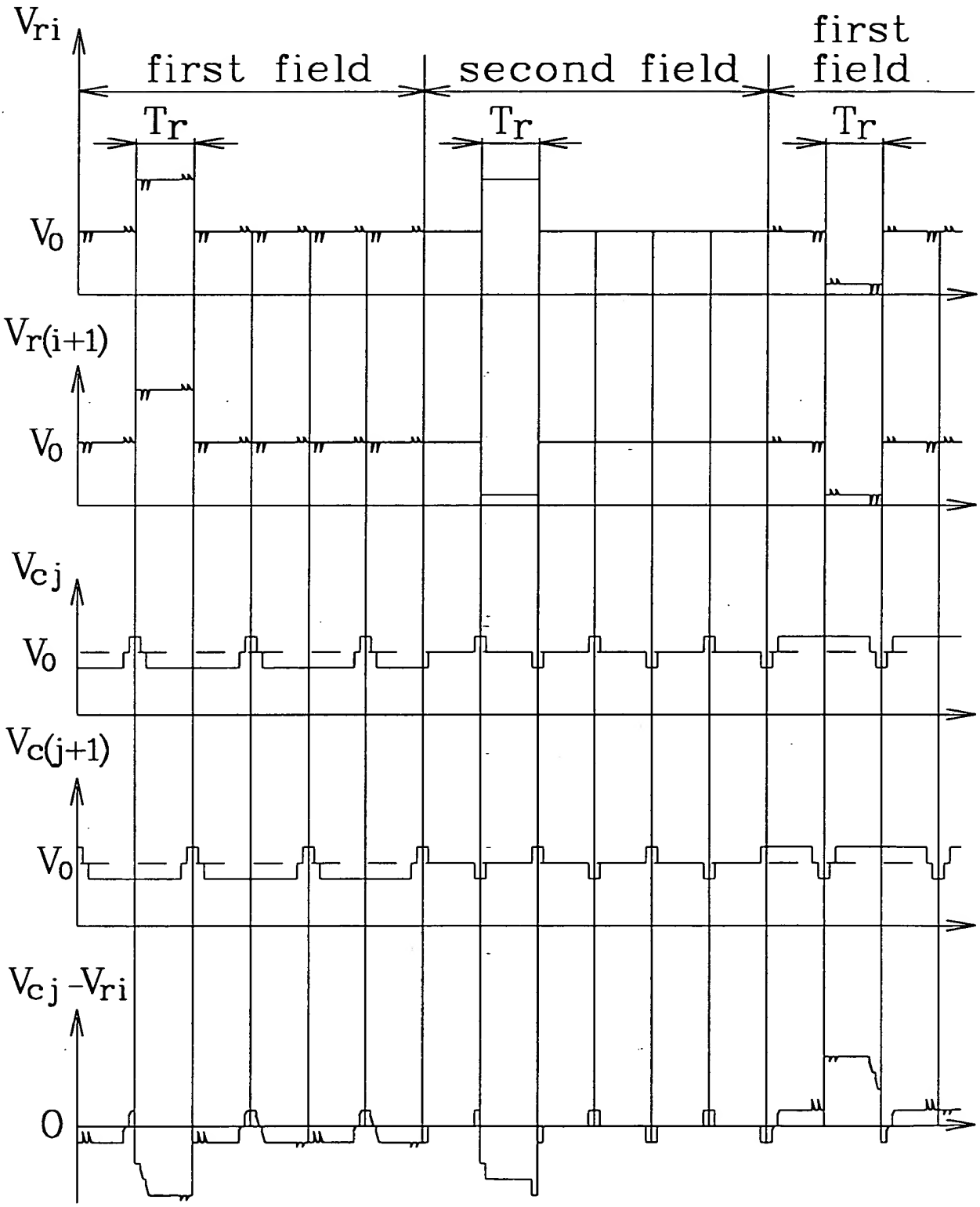
Vri
first field
second field
first field
Tr
Tr
Tr
V0
Vr(i+1)
V0
Vcj
V0
Vc(j+1)
V0
Vcj -Vri
0

FIG. 20

First Interval

Second Interval

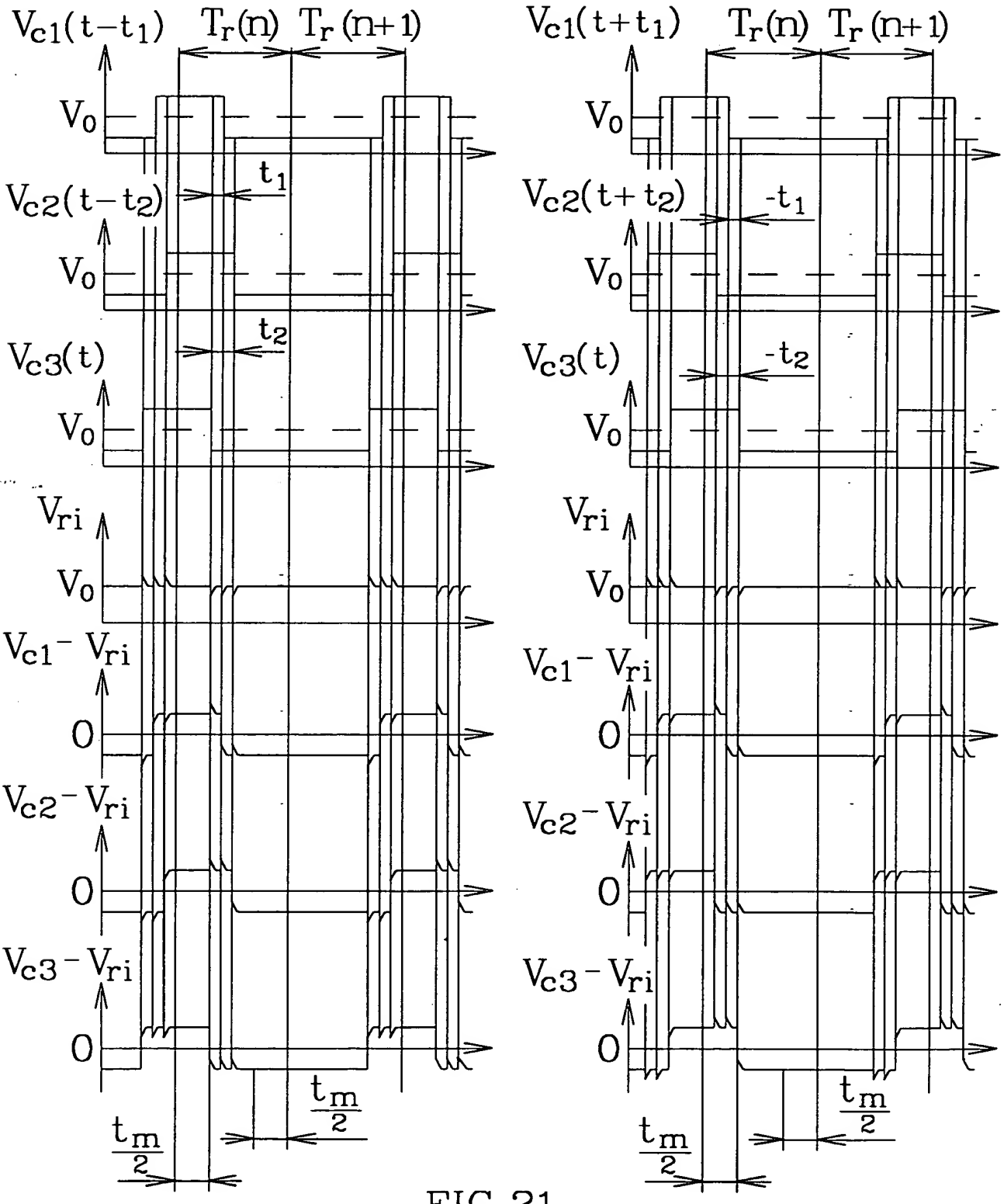

FIG.21

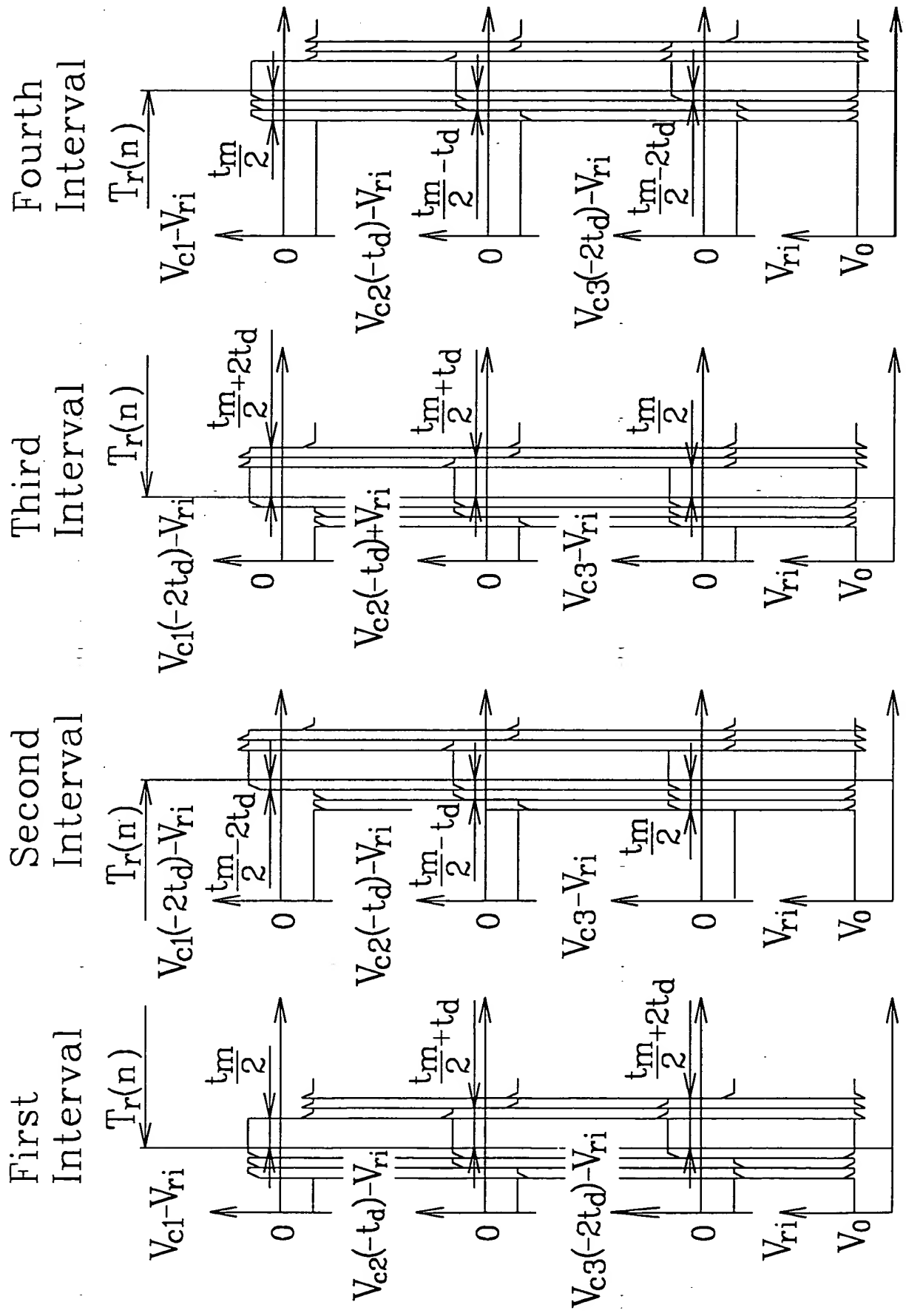
First Interval
Second Interval
Third Interval
Fourth Interval
$T_r(n)$
$V_{c1}-V_{ri}$
$V_{c1}(-2t_d)-V_{ri}$
$V_{c2}(-t_d)-V_{ri}$
$V_{c2}(-t_d)+V_{ri}$
$V_{c3}(-2t_d)-V_{ri}$
$V_{c3}-V_{ri}$
$\frac{t_m}{2}$
$\frac{t_m}{2}-2t_d$
$\frac{t_m}{2}-t_d$
$\frac{t_m}{2}+t_d$
$\frac{t_m}{2}+2t_d$
0
V_{ri}
V_o

FIG.22

09/762233

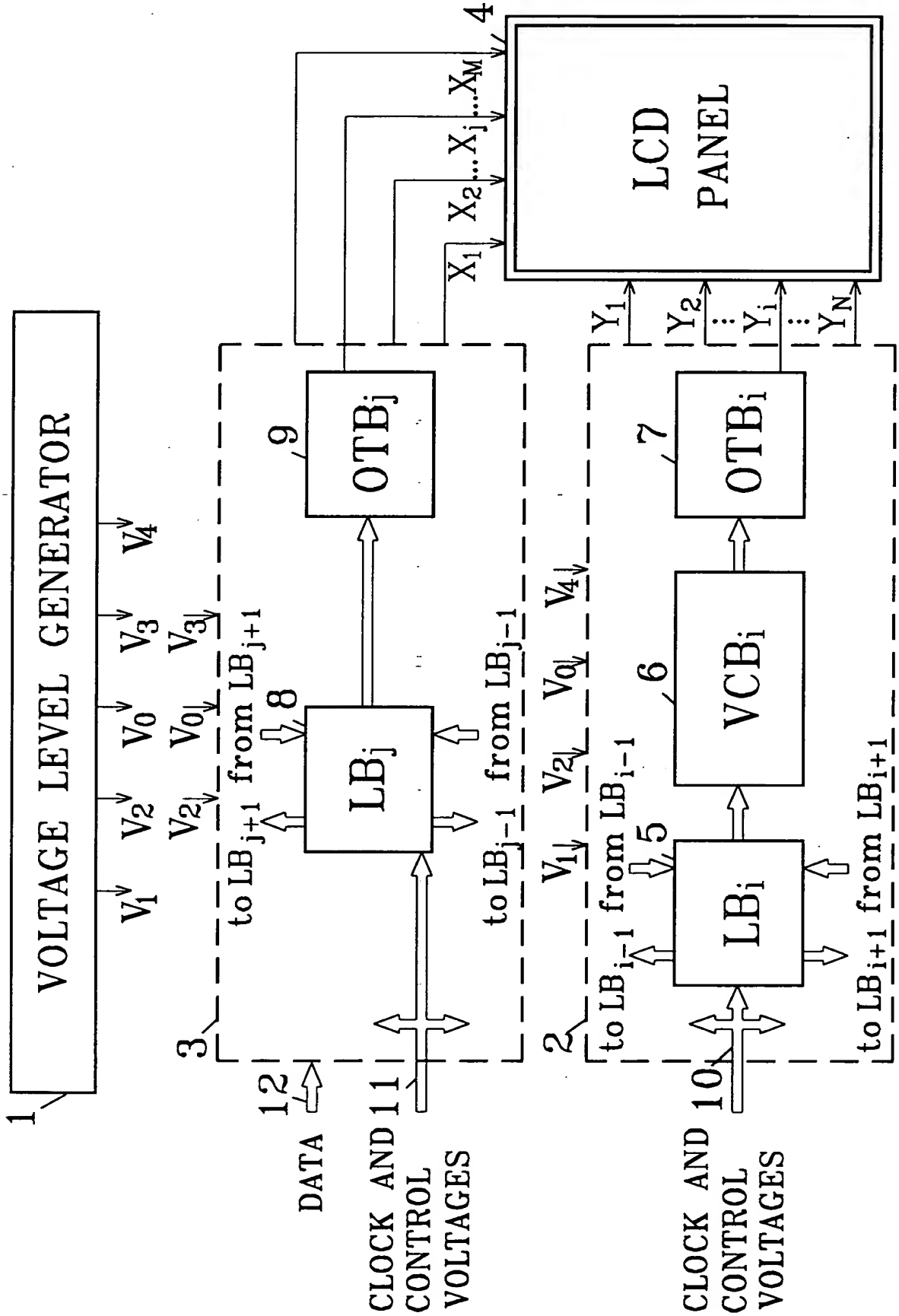

FIG.23

09/762233

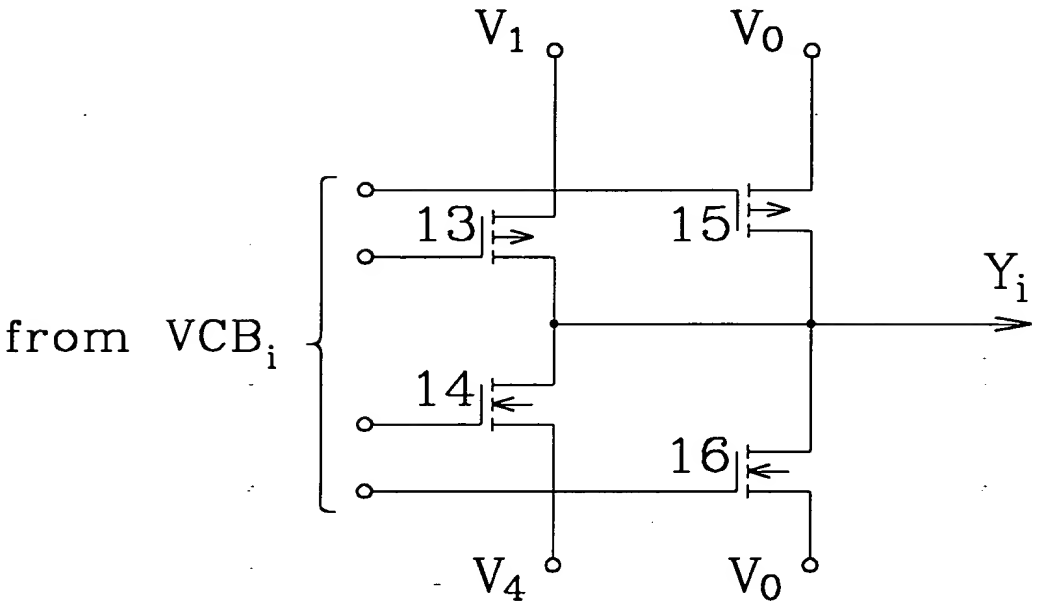

FIG.24

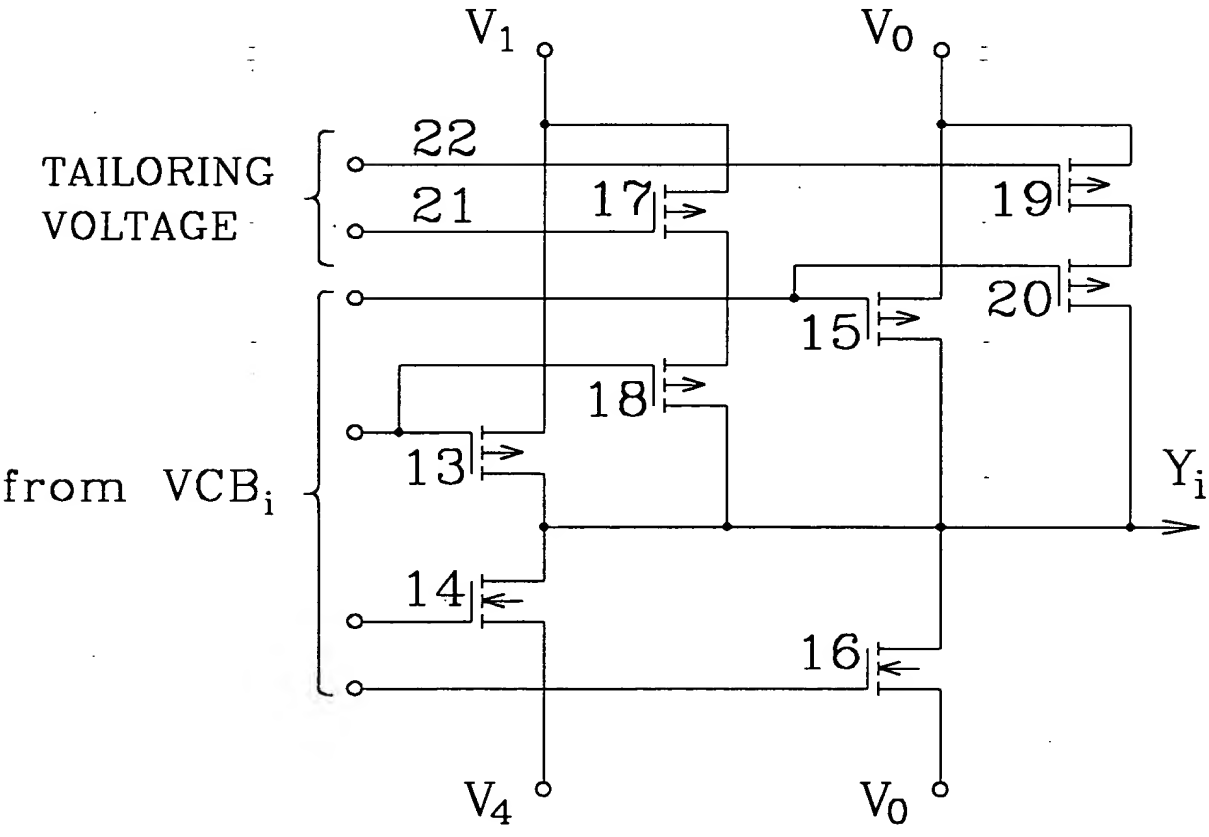

FIG.25

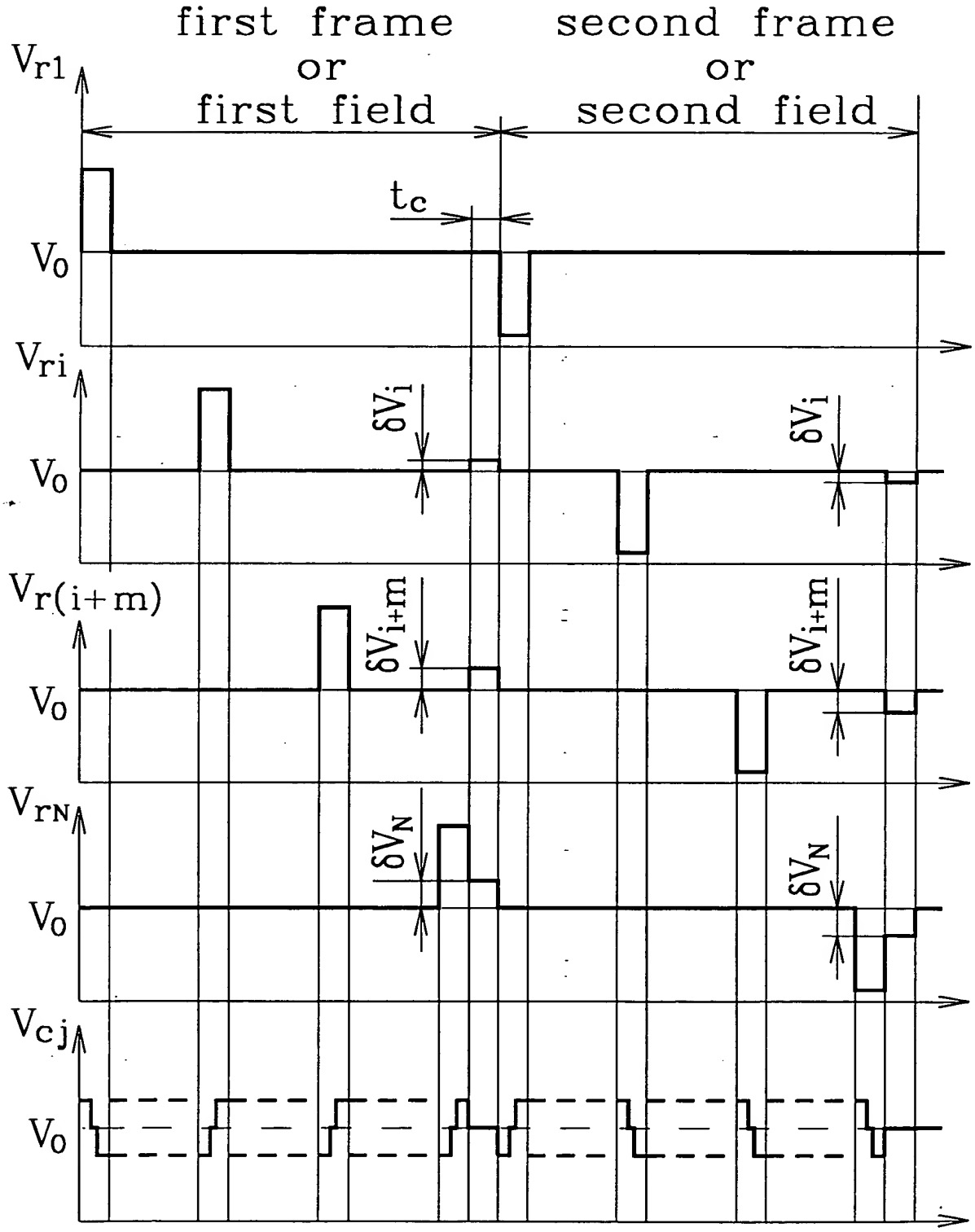
first frame
or
first field
second frame
or
second field
V_{r1}
t_c
V_0
V_{ri}
δV_i
V_0
$V_{r(i+m)}$
δV_{i+m}
V_0
V_{rN}
δV_N
V_0
V_{cj}
V_0

FIG.26

09/762233

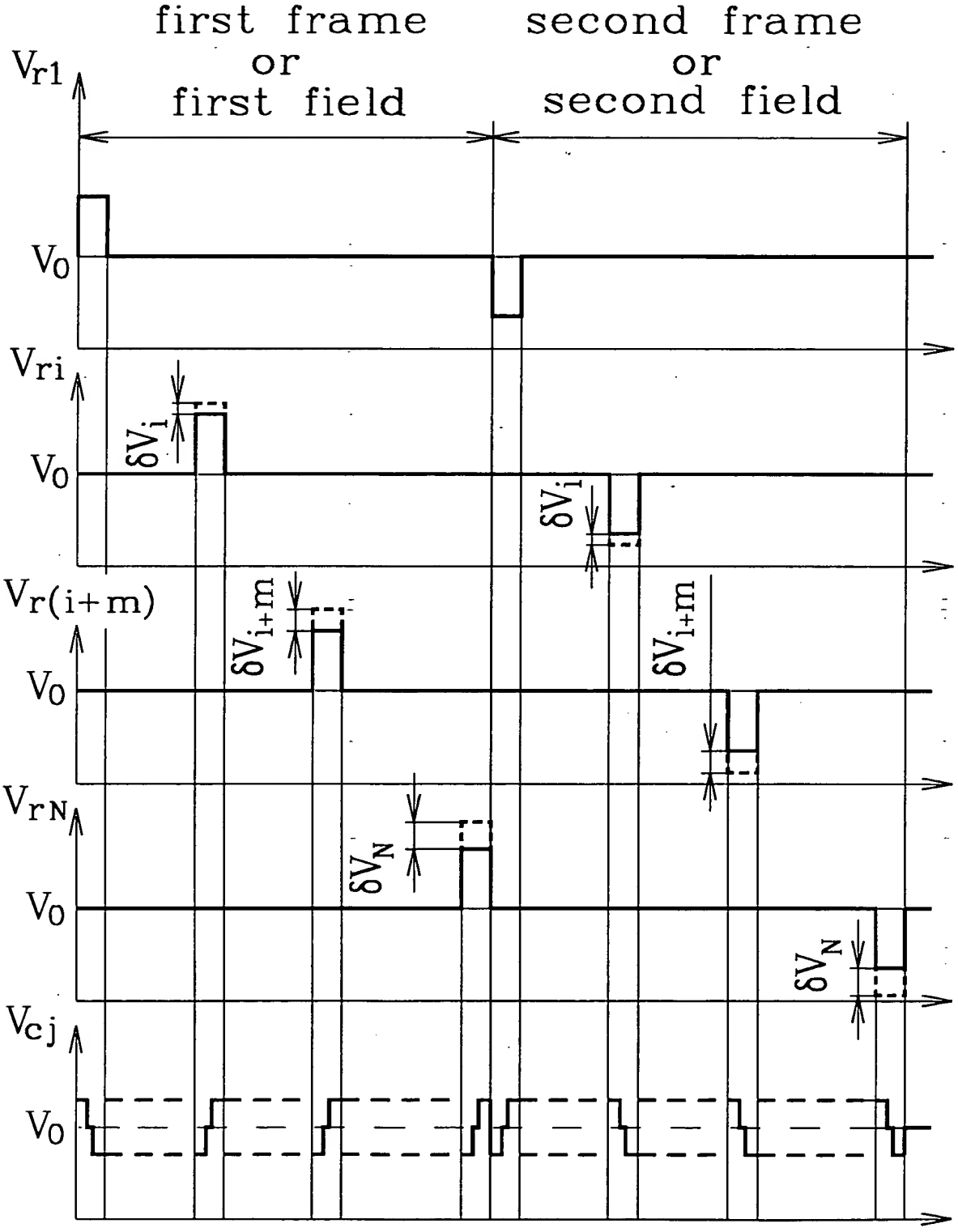

FIG. 27

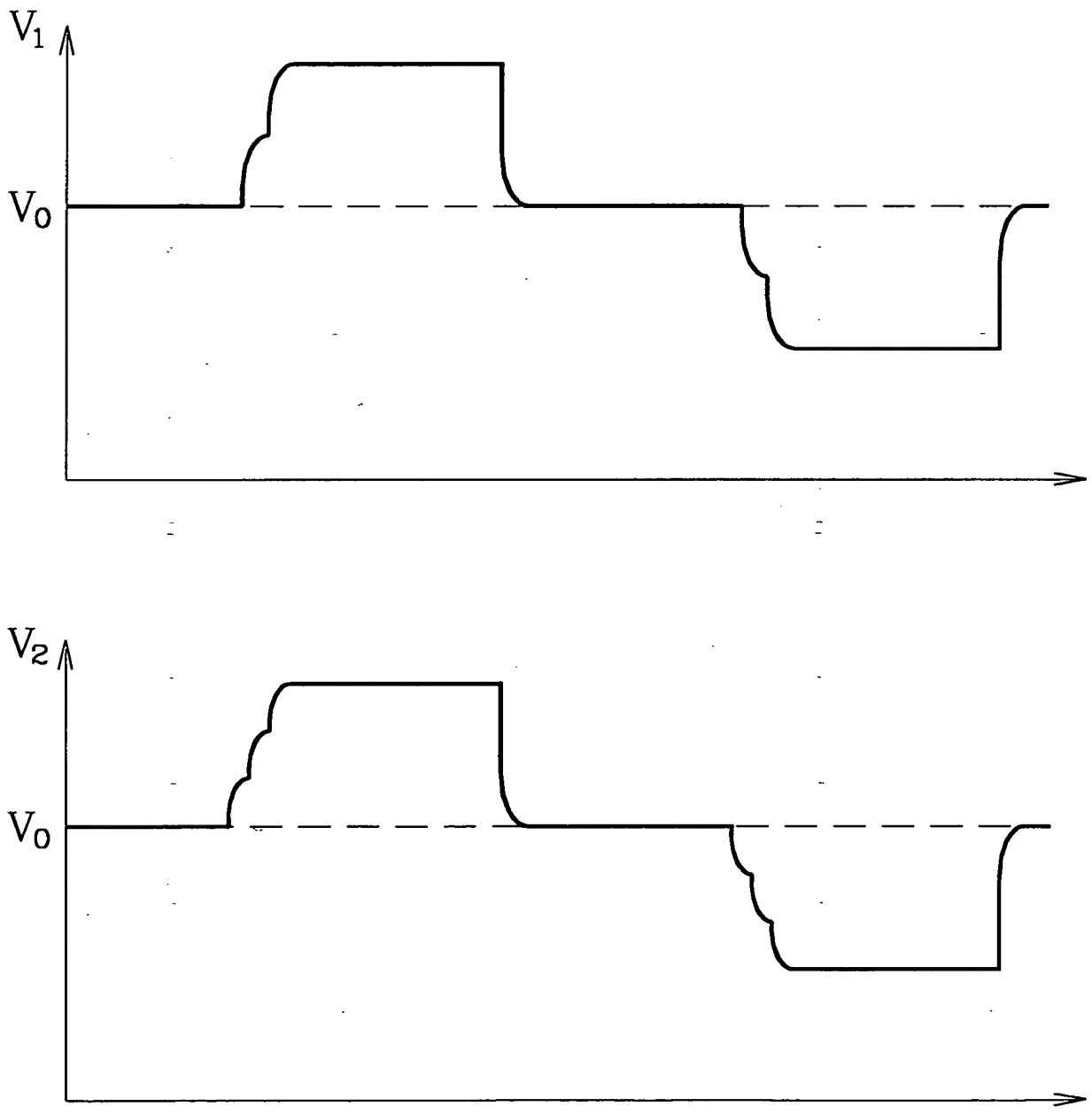

FIG.28

09/762233

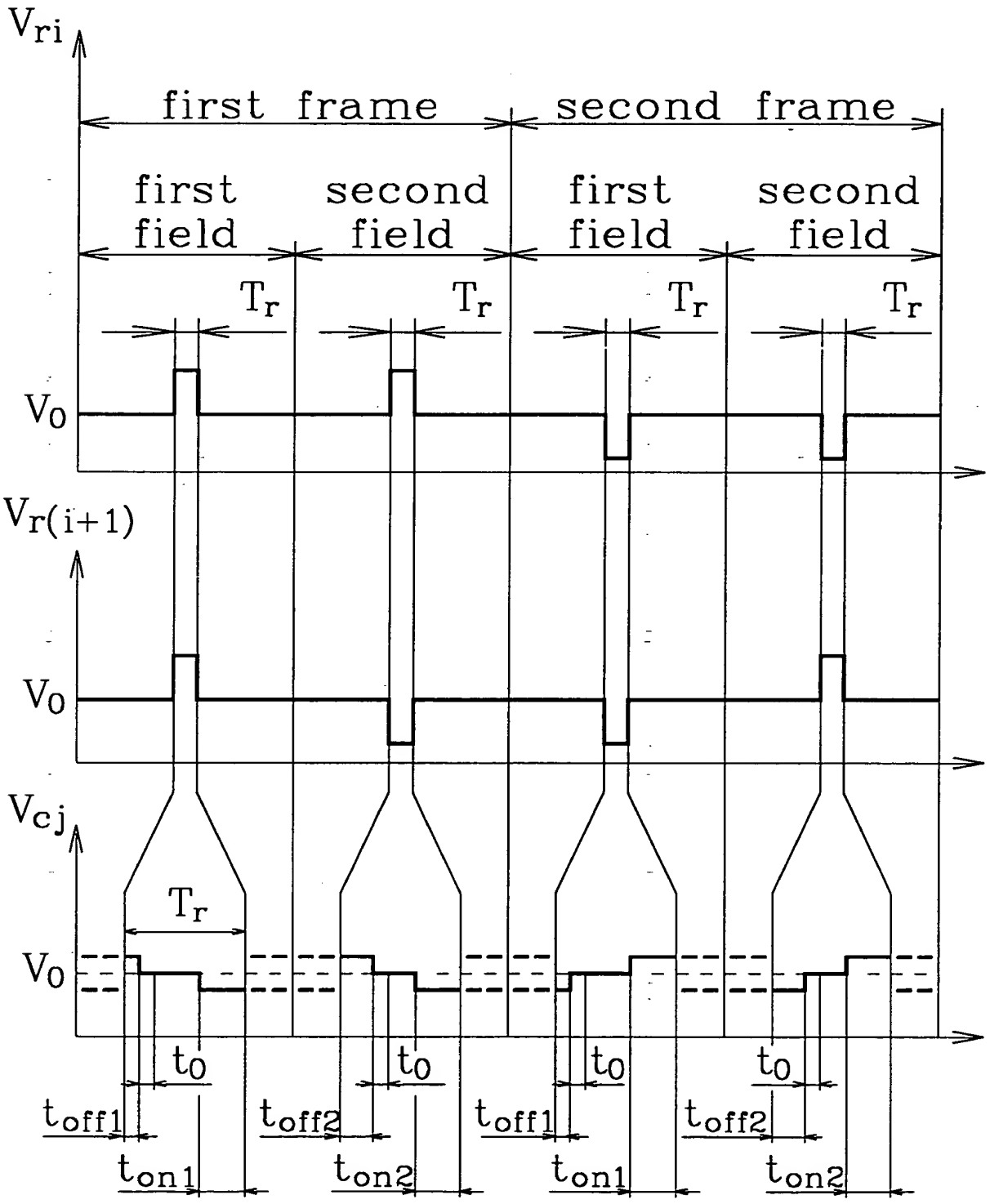

FIG. 29